

Listing of the Claims:

1. (Currently amended) A cover assembly for regulating or adjusting the temperature of materials within a fluid conduit comprising:
a plurality of elongate fluid transfer profiles, each profile having a hollow interior for the passage of a thermal transfer fluid and an opposed exterior surface, said profile exterior surface including a concave exterior surface region extending along a length thereof;
a cover closable about said ~~plurality of said elongate fluid transfer profile~~profiles and adapted to position and maintain said concave exterior surface of each of said fluid transfer profiles in thermal contact with a fluid conduit.
2. (Previously Presented) The cover assembly of claim 1 wherein said cover is adapted to position said plurality of profiles in thermal contact with a fluid conduit.
3. (Original) The cover assembly of claim 2 wherein said cover comprises a flexible fabric having means for positioning each of said plurality of profiles at substantially radially symmetric positions about said fluid conduit.
4. (Currently amended) A cover assembly for regulating or adjusting the temperature of materials within a fluid conduit comprising:
~~at least one elongate fluid transfer profile having a hollow interior for the passage of a thermal transfer fluid, said profile including a concave exterior surface extending along a length thereof;~~
a plurality of elongate fluid transfer profiles, each profile having a hollow interior for the passage of a thermal transfer fluid and an opposed exterior surface, said profile exterior surface including a concave exterior surface region extending along a length thereof;
a cover closable about said fluid transfer ~~profiles~~profile and adapted to position and maintain said respective concave exterior surfaces~~surface~~ in thermal contact with a fluid conduit, wherein the cover is adapted to position the profile in thermal contact with a fluid conduit, the cover comprising a flexible fabric having means for positioning each of said

plurality of profiles at substantially radially symmetric positions about said fluid conduit and a plurality of straps attached to an inside of said cover for positioning said profiles.

5. (Original) The cover assembly of claim 3 comprising 4 profiles.

6. (Original) The cover assembly of claim 3 comprising 6 profiles.

7. (Original) The cover assembly of claim 1 comprising a plurality of profiles formed from metal.

8. (Original) The cover assembly of claim 7 wherein said at least one fluid transfer profile is formed from a metal selected from the group consisting of copper and aluminum.

9. (Original) The cover assembly of claim 1 wherein said concave exterior surface comprises a portion of a substantially circular radius.

10. (Previously presented) A temperature control system for adjusting or maintaining the temperature of a fluid comprising:

a substantially cylindrical conduit having a circumference and an interior and an exterior, the interior configured for passing a fluid;

at least one elongate fluid transfer profile positioned in thermal contact with an exterior of said conduit and extending longitudinally there along, the at least one profile having a arcuate cross section formed from an arcuate region, wherein the arcuate region is configured to correspond to at least a portion of an outer periphery of the substantially cylindrical conduit and is positioned adjacent to the exterior of the conduit;

a flexible insulating cover fastened about said conduit and said profile, said cover maintaining said at least one profile in thermal contact with said conduit, wherein the cover is configured to extend around the circumference of the conduit and contain the at least one elongate fluid transfer profile said cover extending longitudinally there along .

11. (Previously presented) The temperature control system of claim 27 wherein:

said conduit is substantially cylindrical; and

said at least one profile comprises a surface having an arcuate cross section positioned adjacent an exterior of said conduit.

12. (Original) The temperature control system of claim 11 wherein said at least one profile comprises a plurality of profiles arranged substantially radially symmetrically about said conduit.

13. (Original) The temperature control system of claim 12 wherein said cover comprises at least one flexible panel securable about said conduit and having a plurality of retention means for retaining said profiles in a desired position relative to one another.

14. (Original) The temperature control system of claim 13 wherein said cover comprises a substantially rectangular panel with means for attaching to itself along opposite longitudinal edges; and

wherein said retention means retain said profiles substantially parallel said longitudinal edges.

15. (Original) The temperature control system of claim 14 wherein said cover comprises:

a plurality of plastic hooks along a first of said longitudinal edges; and

a plurality of plastic loops adapted to detachably secure to said hooks along a second of said longitudinal edges.

16. (Original) The temperature control system of claim 11 further comprising fittings at opposite ends of said at least one profile adapted for fluidly connecting said profile with a supply of thermal transfer fluid.

17. (Original) The temperature control system of claim 16 wherein at least one of said fittings comprises a threaded aperture oriented substantially orthogonal to a longitudinal orientation of said profile.

18. (Original) The temperature control system of claim 10 further comprising a spreadable thermally conductive material disposed between said conduit and said at least one fluid transfer profile.

19. (Currently amended) A cover assembly for a fluid transfer conduit comprising:
a flexible fabric cover having a first side and a second side, said cover being

openable to a first substantially planar conformation, and closeable to a second substantially cylindrical conformation, said cover comprising means for attaching to itself in said second conformation, wherein said first side is oriented toward the fluid transfer conduit in said second conformation and said second side is oriented away from the fluid transfer conduit in said second conformation; and

a plurality of elongate hollow profiles mounted in said cover, each of said profiles comprising a concave wall surface

wherein the flexible fabric cover includes means for connecting the plurality of elongate hollow profiles to the first face of the cover, the mounting means attached to the first side of the flexible fabric cover, and wherein each of said profiles is substantially rectangular in cross section, each of said profiles comprising three substantially planar wall surfaces and an arcuate wall surface.

20. (Cancelled)

21. (Previously Presented) The cover assembly of claim 19 wherein each of said profiles has opposed end portions and wherein, in said first conformation, said end portions are substantially uniformly out of a plane defined by said cover, and wherein in said second conformation said end portions are substantially uniformly away from an axis of a cylinder defined by said cover.

22. (Currently amended) A cover assembly for a fluid transfer conduit
comprising: The cover assembly of claim 19

a flexible fabric cover having a first side and a second side, said cover being
openable to a first substantially planar conformation, and closeable to a second substantially
cylindrical conformation, said cover comprising means for attaching to itself in said second
conformation, wherein said first side is oriented toward the fluid transfer conduit in said second
conformation and said second side is oriented away from the fluid transfer conduit in said second
conformation; and

a plurality of elongate hollow profiles mounted in said cover, each of said profiles comprising a concave wall surface

wherein the flexible fabric cover includes means for connecting the plurality of elongate hollow profiles to the first face of the cover, the mounting means attached to the first side of the flexible fabric cover, the connecting means including further comprising first and second fabric strips sewn to an inside of said cover at a plurality of locations, each of said strips defining a plurality of loops for receipt of a profile.

23. (Currently amended) The cover assembly of claim 22 ~~claim 19~~ wherein said cover comprises a thermally insulating material.

24. (Previously Presented) A method of regulating the temperature of the contents of a fluid carrying conduit comprising the steps of:

positioning at least one thermally conductive hollow profile in thermal contact with and substantially conforming to the exterior of said fluid carrying conduit, wherein the at least one thermally conductive hollow profile has an inner surface and an outer surface, the inner surface and the outer surface being essentially parallel to one another and wherein the at least one thermally conductive hollow profile has at least one concave exterior surface, wherein the concave exterior surface conforms to the exterior of said fluid carrying unit;

passing a thermally conductive fluid through said profile, thereby facilitating transfer of heat between the contents of the fluid carrying conduit and the thermally conductive fluid;

securing a flexible cover around an outer periphery defined by the profile and the conduit to position and maintain the same in thermal contact.

25. (Cancelled)

26. (Original) The method of claim 24 wherein the step of positioning the exterior surface of at least one profile in thermal contact with the conduit comprises positioning a plurality of thermally conductive hollow profiles radially about an exterior of a fluid carrying conduit.

27. (Previously Presented) A temperature control system for adjusting or maintaining the temperature of a fluid comprising:

- a conduit for passing a fluid;

- a cover assembly composed of:

- at least one elongate fluid transfer profile, the profile composed of a profile wall defining a hollow interior configured for passage of a thermal transfer fluid, the profile wall having an exteriorly disposed outer face and an interiorly oriented inner face wherein the outer face and the inner face are disposed essentially parallel to one another, said profile including a concave exterior surface extending along a length thereof;

- a cover closable about said fluid transfer profile and adapted to position and maintain said concave exterior surface region in thermal contact with a fluid conduit.